

Title (en)
Pressure sensor

Title (de)
Drucksensor

Title (fr)
Capteur de pression

Publication
EP 1491872 B1 20051116 (DE)

Application
EP 03014729 A 20030627

Priority
EP 03014729 A 20030627

Abstract (en)
[origin: EP1491872A1] Pressure sensor comprises a sensor element(2), a cylindrical ring (6) and a flat membrane (4) with an upper side (8) and a lower side (10). An electrical resistor is located on the top of the membrane, and its conductivity changes when the membrane deforms. A housing (26) holds the sensor, and a pressurizing fluid can be fed under the membrane via a sleeve that extends into the sensor cut out. A pressure sensor comprises a sensor element (2), a hollow cylindrical ring (6) and a flat membrane (4) with an upper side (8) and a lower side (10). The membrane is fixed to the ring at its edge. An electrical resistor is located on the top of the membrane, and its conductivity changes when the membrane deforms. A housing (26) holds the sensor, and a pressurizing fluid can be fed under the membrane via a sleeve that extends into the sensor cut out. A ring shaped disc is located next to the sensor element, and an elastomer sealing ring locates against the cut out circumference. The disc outer edge is fixed to the housing, and the disc is fixed to the sleeve.

IPC 1-7
G01L 9/00

IPC 8 full level
G01L 9/00 (2006.01)

CPC (source: EP US)
G01L 19/0038 (2013.01 - EP US); **G01L 19/142** (2013.01 - EP US); **G01L 19/147** (2013.01 - EP US); **G01L 19/148** (2013.01 - EP US)

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